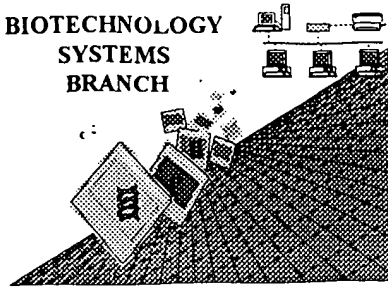


Korom

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

09/592,695

Source:

1627

Date Processed by STIC:

3/16/2001

#8

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/592,695

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 _____ Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 _____ Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 _____ Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 _____ Misaligned Amino Acid Numbering The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 _____ Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 J _____ Variable Length Sequence(s) 1 contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
- 7 _____ PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 8 _____ Skipped Sequences (OLD RULES) Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 _____ Skipped Sequences (NEW RULES) Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 10 _____ Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 J _____ Use of <213>Organism (NEW RULES) Sequence(s) _____ are missing this mandatory field or its response.
1
- 12 _____ Use of <220>Feature (NEW RULES) Sequence(s) ____ are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 _____ PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

1627

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/592,695

DATE: 03/16/2001
TIME: 15:33:38

Input Set : A:\PTO.txt
Output Set: N:\CRF3\03162001\I592695.raw

Does Not Comply
Corrected Diskette Needed

pg 1, 4-5

3 <110> APPLICANT: Cochran, Andrea G.
4 Skelton, Nicholas J.
5 Starovasnik, Melissa A.
7 <120> TITLE OF INVENTION: Structured Peptide Scaffold For Displaying Turn
8 Libraries On Phage
10 <130> FILE REFERENCE: P1762R1 US
12 <140> CURRENT APPLICATION NUMBER: US 09/592,695
13 <141> CURRENT FILING DATE: 2000-06-13
15 <150> PRIOR APPLICATION NUMBER: US 60/139,017
16 <151> PRIOR FILING DATE: 1999-06-14
18 <160> NUMBER OF SEQ ID NOS: 25
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 7
22 <212> TYPE: PRT
23 <213> ORGANISM: Artificial Sequence *see item 12 on Error Summary Sheet*
25 <220> FEATURE:
26 <223> OTHER INFORMATION: Xaa at positions 3 and 5 are selected from the group consisting of amino
27 acids Trp, Tyr, Phe, Leu, Met, Ile and Val;
29 <220> FEATURE:
W--> 30 <221> NAME/KEY: Artificial Sequence *These are not responses shown in WIPO Standard*
31 <222> LOCATION: Full *ST.25 Appendix 2 Tables 5 and 6*
32 <223> OTHER INFORMATION: Xaa at positions 2 and 6 are selected from the group consisting of amino
33 acids Trp, Tyr, Phe, His, Ile, Val and Thr;
35 <220> FEATURE:
W--> 36 <221> NAME/KEY: Artificial Sequence3 *not in WIPO Standard ST.25 see 1.823 of new Sequence Rules*
37 <222> LOCATION: Full
38 <223> OTHER INFORMATION: Xaa at position 4 stands for (3-12) L-form amino acids.
40 <220> FEATURE:
W--> 41 <221> NAME/KEY: unsure *These locations have been identified above*
42 <222> LOCATION: 2-6 *item 6 on Error Summary Sheet*
43 <223> OTHER INFORMATION: unknown amino acid
45 <400> SEQUENCE: 1
W--> 46 Cys Xaa Xaa Xaa Xaa Xaa Cys
47 1 5
49 <210> SEQ ID NO: 2
50 <211> LENGTH: 10
51 <212> TYPE: PRT
52 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:
55 <223> OTHER INFORMATION: turn peptide
57 <400> SEQUENCE: 2
58 Cys Thr Trp Glu Gly Asn Lys Leu Thr Cys
59 1 5 10
61 <210> SEQ ID NO: 3
62 <211> LENGTH: 12
63 <212> TYPE: PRT
64 <213> ORGANISM: Artificial Sequence

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MAR 23 2001

TECH CENTER 1600/2900

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/592,695

DATE: 03/16/2001
TIME: 15:33:38

Input Set : A:\PTO.txt
Output Set: N:\CRF3\03162001\I592695.raw

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66 <220> FEATURE:
67 <223> OTHER INFORMATION: turn peptide
69 <400> SEQUENCE: 3
70 Ser Cys Thr Trp Glu Gly Asn Lys Leu Thr Cys Lys
71 1 5 10
73 <210> SEQ ID NO: 4
74 <211> LENGTH: 10
75 <212> TYPE: PRT
76 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: turn peptide
81 <400> SEQUENCE: 4
82 Cys Gly Asn Gln Gly Ser Phe Leu Thr Cys
83 1 5 10
85 <210> SEQ ID NO: 5
86 <211> LENGTH: 10
87 <212> TYPE: PRT
88 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
91 <223> OTHER INFORMATION: turn peptide
93 <400> SEQUENCE: 5
94 Cys Thr Trp Gln Gly Ser Phe Leu Thr Cys
95 1 5 10
97 <210> SEQ ID NO: 6
98 <211> LENGTH: 12
99 <212> TYPE: PRT
100 <213> ORGANISM: Artificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: turn peptide
105 <400> SEQUENCE: 6
106 Ser Cys Gly Asn Gln Gly Ser Phe Leu Thr Cys Lys
107 1 5 10
109 <210> SEQ ID NO: 7
110 <211> LENGTH: 12
111 <212> TYPE: PRT
112 <213> ORGANISM: Artificial Sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: turn peptide
117 <400> SEQUENCE: 7
118 Ser Cys Thr Asn Gln Gly Ser Phe Leu Thr Cys Lys
119 1 5 10
121 <210> SEQ ID NO: 8
122 <211> LENGTH: 12
123 <212> TYPE: PRT
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: turn peptide
129 <400> SEQUENCE: 8
130 Ser Cys Gly Trp Gln Gly Ser Phe Leu Thr Cys Lys
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/592,695

DATE: 03/16/2001
TIME: 15:33:38

Input Set : A:\PTO.txt
Output Set: N:\CRF3\03162001\I592695.raw

```
131      1              5              10
133 <210> SEQ ID NO: 9
134 <211> LENGTH: 12
135 <212> TYPE: PRT
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: turn peptide
141 <400> SEQUENCE: 9
142 Ser Cys Thr Trp Gln Gly Ser Phe Leu Thr Cys Lys
143      1              5              10
145 <210> SEQ ID NO: 10
146 <211> LENGTH: 12
147 <212> TYPE: PRT
148 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: turn peptide
153 <400> SEQUENCE: 10
154 Ser Cys Gly Asn Gln Gly Ser Phe Leu Thr Cys Lys
155      1              5              10
157 <210> SEQ ID NO: 11
158 <211> LENGTH: 12
159 <212> TYPE: PRT
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: turn peptide
165 <400> SEQUENCE: 11
166 Ser Cys Thr Trp Gln Gly Ser Phe Leu Thr Cys Lys
167      1              5              10
169 <210> SEQ ID NO: 12
170 <211> LENGTH: 10
171 <212> TYPE: PRT
172 <213> ORGANISM: Artificial Sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: turn peptide
177 <400> SEQUENCE: 12
178 Cys Thr Lys Val Trp Gln Leu Trp Thr Cys
179      1              5              10
181 <210> SEQ ID NO: 13
182 <211> LENGTH: 12
183 <212> TYPE: PRT
184 <213> ORGANISM: Artificial Sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: turn peptide
189 <400> SEQUENCE: 13
190 Ser Cys Thr Trp Val Trp Gln Leu Leu Thr Cys Lys
191      1              5              10
193 <210> SEQ ID NO: 14
194 <211> LENGTH: 12
195 <212> TYPE: PRT
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/592,695

DATE: 03/16/2001
TIME: 15:33:38

Input Set : A:\PTO.txt
Output Set: N:\CRF3\03162001\I592695.raw

196 <213> ORGANISM: Artificial Sequence
198 <220> FEATURE:
199 <223> OTHER INFORMATION: turn peptide
201 <400> SEQUENCE: 14
202 Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys
203 1 5 10

205 <210> SEQ ID NO: 15
206 <211> LENGTH: 12
207 <212> TYPE: PRT
208 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: turn peptide
213 <400> SEQUENCE: 15
214 Ser Cys Thr Trp Gly Pro Leu Thr Leu Thr Cys Lys
215 1 5 10

217 <210> SEQ ID NO: 16
218 <211> LENGTH: 10
219 <212> TYPE: PRT
220 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:

223 <223> OTHER INFORMATION: turn peptide; Xaa is Trp, Tyr, Leu, Val, Thr or Asp.

225 <220> FEATURE:

226 <221> NAME/KEY: unsure ?

227 <222> LOCATION: 3

228 <223> OTHER INFORMATION: unknown amino acid

230 <400> SEQUENCE: 16

W--> 231 Cys Thr Xaa Glu Gly Asn Lys Leu Thr Cys
232 1 5 10

234 <210> SEQ ID NO: 17

235 <211> LENGTH: 10

236 <212> TYPE: PRT

237 <213> ORGANISM: Artificial Sequence

239 <220> FEATURE:

240 <223> OTHER INFORMATION: turn peptide; Xaa is Trp, Tyr, Leu, Val, Thr or Asp.

242 <220> FEATURE:

243 <221> NAME/KEY: unsure

244 <222> LOCATION: 3

245 <223> OTHER INFORMATION: unknown amino acid

247 <400> SEQUENCE: 17

W--> 248 Cys Thr Xaa Glu Asn Gly Lys Leu Thr Cys
249 1 5 10

251 <210> SEQ ID NO: 18

252 <211> LENGTH: 10

253 <212> TYPE: PRT

254 <213> ORGANISM: Artificial Sequence

256 <220> FEATURE:

257 <223> OTHER INFORMATION: turn peptide; Xaa is Trp, Tyr, Leu, Val, Thr or Asp.

259 <220> FEATURE:

260 <221> NAME/KEY: unsure

? Xaa has been identified as one of the above.

same discrepancy as above

same

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/592,695

DATE: 03/16/2001
TIME: 15:33:38

Input Set : A:\PTO.txt
Output Set: N:\CRF3\03162001\I592695.raw

261 <222> LOCATION: 3
262 <223> OTHER INFORMATION: unknown amino acid
264 <400> SEQUENCE: 18
W--> 265 Cys Thr Xaa Glu Pro Asn Lys Leu Thr Cys
266 1 5 10
268 <210> SEQ ID NO: 19
269 <211> LENGTH: 10
270 <212> TYPE: PRT
271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: turn peptide: Xaa is Trp, Tyr, Leu, Val, Thr or Asp.
276 <220> FEATURE:
277 <221> NAME/KEY: unsure
278 <222> LOCATION: 3
279 <223> OTHER INFORMATION: unknown amino acid same
281 <400> SEQUENCE: 19
W--> 282 Cys Thr Xaa Glu Pro Gly Lys Leu Thr Cys
283 1 5 10
285 <210> SEQ ID NO: 20
286 <211> LENGTH: 10
287 <212> TYPE: PRT
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: Xaa is Trp, Tyr, Phe, Leu, Met, Ile, Val or Ala
293 <220> FEATURE:
294 <221> NAME/KEY: unsure
295 <222> LOCATION: 3
296 <223> OTHER INFORMATION: unknown amino acid same
298 <400> SEQUENCE: 20
W--> 299 Cys Thr Xaa Glu Gly Asn Lys Leu Thr Cys
300 1 5 10
302 <210> SEQ ID NO: 21
303 <211> LENGTH: 10
304 <212> TYPE: PRT
305 <213> ORGANISM: Artificial Sequence
307 <220> FEATURE:
308 <223> OTHER INFORMATION: Xaa is Trp, Tyr, Phe, Leu, Met, Ile, Val or Ala
310 <220> FEATURE:
311 <221> NAME/KEY: unsure
312 <222> LOCATION: 8
313 <223> OTHER INFORMATION: unknown amino acid same
315 <400> SEQUENCE: 21
W--> 316 Cys Thr Leu Glu Gly Asn Lys Xaa Thr Cys
317 1 5 10
319 <210> SEQ ID NO: 22
320 <211> LENGTH: 10
321 <212> TYPE: PRT
322 <213> ORGANISM: Artificial Sequence
324 <220> FEATURE:

Please correct these errors
in subsequent sequences too.

FJI

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is present in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/592,695

DATE: 03/16/2001
TIME: 15:33:39

Input Set : A:\PTO.txt
Output Set: N:\CRF3\03162001\I592695.raw

L:30 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1
L:36 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1
L:46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25